

ABSTRACT OF THE DISCLOSURE

1000033-120401
TOTOT SEEDOOT

In a chemical decontamination method and a chemical decontaminating system for chemically decontaminating radioactive nuclides from a metallic material surface contaminated by the radioactive nuclides, the method comprise the processes of reductively decontaminating using a reductive decontaminating agent containing at least two kinds of components; and then decomposing the reductive decontaminating agent using a decomposing apparatus for decomposing at least two kinds of chemical substances in the reductive decontaminating agent. In addition, a chemical decontaminating system, which comprises a catalyst decomposition column in an upstream side of an ion exchange resin column and a hydrogen peroxide injection apparatus in a further upstream side in order to reduce an amount of waste products caused by a chemical decontaminating agent in a case where a mixed decontaminating agent for a composition trapped in a cation resin column and for a composition trapped in an anion exchange resin is used for the chemical decontaminating agent, and in order to selectively decompose the composition trapped in a cation resin column in an inlet side of a cleaning apparatus when radioactive nuclides in the decontaminating agent are cleansed using the cation resin column during decontaminating and decompose the both compositions after completion of decontaminating process. The present invention provides a chemical decontamination method using

Further, the present invention provides a chemical
5 decontamination method which moderates corrosion of
material by using a chemical decontaminating agent
decomposing apparatus capable of decomposing not only the
components trapped by the cation exchange resin but also
components trapped by an anion exchange resin at a time.